## U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Substitute for form 1449/PTO Application Number 10/782.733 Filing Date February 19, 2004 INFORMATION DISCLOSURE First Named Inventor John Fralick STATEMENT BY APPLICANT Art Unit 3737 (use as many sheets as necessary) Examiner Name Lamprecht, Joel Attorney Docket Sheet 1 of 6 186575/US/2 Number U.S. PUBLICATION DOCUMENTS Pages, Columns, Lines, DOCUMENT NUMBER Where Relevant Passages or Publication Date Name of Patentee or Number - Kind Code (if known) MM-DD-YYYY Applicant of Cited Document Relevant Figures Appear 2002/0072932 06/2002 Swamy US Sammak, et al. 2002/0098588 07/25/2002 2002/0118361 08/29/2002 Cadell et al. US 2002/0133080 09/2002 Apruzzese et al. US 2002/0022775 02/21/2002 Finkelshteins US 2003/0030798 02/2003 Samsoondar et al. US 2006/0092411 05/04/2006 Ferguson et al. US 2004/0254479 12/16/2004 Fralick et al. US 2005/0197580 09/08/2005 Ferguson et al. US 2005/0197582 09/08/2005 Ferguson et al. LIS 2005-0197581 09/08/2005 Ferguson et al. US 2005-0278184 12/15/2005 Fralick et al. US U.S. PATENT DOCUMENTS Pages, Columns, Lines. DOCUMENT NUMBER \*Examine Cite Issue Date Name of Patentee or Where Relevant Passages or ritials No. MM-DD-YYYY Applicant of Cited Document Relevant Figures Appear Number - Kind Code (if known) 3.272,766 09/1966 Gowman US 02/24/1981 Skostins 4.252.709 US 4.318.057 03/1982 Buchwald et al. US 4.500.995 02/1985 White US 4,758,081 07/1988 Barnes US 4.807.240 02/1989 Goldstone US 4,832,483 05/1989 Verma US 4.852.579 08/1989 Gilstad et al. US EXAMINER SIGNATURE DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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				<u> </u>	U.S. PAT	ENT D	OCUMENTS			
*Examiner Initials	Cite						Name of Patent Applicant of Cited D	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		US 4,8	58,238		08/1989	08/1989 Cardimona				
	$\vdash$	US 4,9	75,581		12/4/1990		Robinson et al.			
		US 5,0	34,228		07/1991		Meybeck et al.			
		US 5,1	24,313		06/1992		Schaeffer et al.			
		US 5,2	43,983		09/1993		Tarr et al.			
	Г	US 5,2	75,168		01/1994	-	Reintjes et al.			
		US 5,2	90,605		03/1994		Shapira			
		US 5,3	03,026		04/1994		Strobl et al.			
		US 5,3	04,170		04/1994		Green			
		US 5,3	10,563		05/10/199					
		US- 5,3	46,488		09-13-199					
		US- 5,3	48,018		09-20-1994		Alfano et al.			
		US- 5,4	18,797		05-23-199	95	Bashkansky et al.			
		US- 5,4	21,337		06-06-199	95	Richards-Kortum et al.			
		US- 5,4	32,610		07-11-199		King et al.		,	
		US 5,4	49,376		09/12/199	95	Callahan			
		US- 5,4	51,785		09-19-19	95	Faris			
		US- 5,4	52,723		09-26-199	95	Wu et al.			
		US 5,5	52,997		09/03/199	96	Massart			

Ham et al.

Anderson et al.

Tarcha et al.

Vo-Dinh et al.

MacAulay et al.

DATE CONSIDERED

09-10-1996

09-17-1996

10-22-1996

12-03-1996

01-07-1997

5,553,616

5,556,612

5,567,628

5,579,773

5,590,660

US-

US-

US-

US-

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EXAMINER SIGNATURE

								U.S. Patent and Tradema	rk Office; U.S. I	DEPARTMENT OF	COMM	ERCE		
Substitute for form 1449/PTO App								cation Number	10/782,733	3				
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						J.S. PAT	ENT I	OCUMENTS						
*Examiner Initials	Cite No.	Cite DOCUMENT NUMBER				Issue Date MM-DD-YYYY		Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear		es or		
		U	S- 5,6	43,623		07-01-199	7	Schmitz et al.						
		U	US- 5,657,754			08-19-199	7	Rosencwaig						
		U	US- 5,697,373			12-16-199	7	Richards-Kortum et al.						
		U	US 5,730,714			03/24/1998		Guy et al.						
		U	US- 5,733,507			03-31-1998		Zakim						
		U	US- 5,811,804			09/1998		Van Blitterswijk et	al.					
		-	US- 6,595,929			07/2003		Stivoric et al.						
		1	US 6,621,574			09/16/200		Forney et al.						
		1	US- 6,690,966			02-10-200		Rava et al.						
		-	US- 7,039,452			04/29/2008		McClane et al. Ferguson et al.						
		Ľ	S- 7,3	65,839		04/29/2008		reiguson et al.						
					FO	DEIGN D	ATEN	T DOCUMENTS						
		п			FU	KEIGN P	AIEN	II DOCUMENTS		Pages,				
*Examiner	Cite	Country Code:		N PATENT DOCUMENT Number - Kind Code (if known)		Publication Date		Name of Patentee or		Columns, Lines, Where Relevant Passages or Relevant	TRANSLATION			
Initial	No.					MM-DD-		Applicant of Cited Document		Figures Appear	YES	NO		
		_	EP	0 368		05/16/19		Hamamatsu Photonic						
			EP	07226		07-24-1		Hughes Aircraft Cor						
			wo	1992/1	10131	06-25-1	992	Georgia Tech Resea Corporation	arch					
			wo	1992/1	15008	09-03-1	992	Massachusetts Inst Technology						
			wo		78217	12/28/20		University of Utah Res Foundation	search					
			wo	2001/0	78577	10/25/20	001	Vivometrics, Inc.						
EXAMI	NER	SIC	SNATURE	=				DATE CONSIDERED						

								U.S. Palent and Trademai	K Office; U.S.	DEPARTMENT OF	COMIN	ERCE	
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			FOREIG	N PATEN	IT DOCUMENT					Pages, Columns, Lines, Where Relevant			
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Initial	No.		Code:		known)	MM-DD-		Name of Fateritee of		Figures Appear	YES	NO	
			wo	2002/0	43585	06/06/20	002	Optiscan Biomedical (	Corp				
			wo	2002/063269		08/15/20	002	Apruzzese William et al.					
			JP	2003-507088 (abstract only)		02/25/20	003	University of Utah Research Foundation			×		
			JP	2003-530184 (abstract only)		10/14/2003		VIVOMETRICS INC			×		
			JP	2003-108679		04/11/2003		Toshiba Corp.			×		
			TW	552126B		09/11/2003		Philometron Inc.			$\boxtimes$		
		1	TW	558635B		10/21/2003		Biofiber Indetification	Inc.		⊠		
			ОТІ	HER D	OCUMENT	S - NON	I-PAT	ENT LITERATURI	DOCUM	MENTS			
Include name of the author (in CAPITAL LETTERS), title of the au								RS), title of the article (when	appropriate),	title of the	TRANS	LATION	
Initials	No.			item (t			al, symposium, catalog, etc.), date, page(s), volume-issue her, city and/or country where published					NO	
								l phantom and its app					
			photodynamic therapy," Lasers in Surgery and Medicine, Wiley-Liss, New York, US, Vol. 21, No. 3, pp. 227-234 (Jan. 1, 1997).									Ш	
			BERENDSCHOT, Tos T. J. M., et al., "Influence of Lutein Supplementation on Macular Pigment, Assessed with Two Objective Techniques," IOVS, Oct. 2000, vol. 41, No. 11, pp. 3322-3326.										
			BONE, R.A., Landrum, J.T., and Cains, A, "Optical Density Spectra of the Macular										
								microscopy through pp. 561-571 (1996).	a turbid m	edium,"			
	-	┪	BRODY	′, J.E., '	'Health Facto	r in Vege	tables	Still Elusive," The Ne	w York Ti	mes, Section			
		ı	C, p. 1,	(Feb. 2	1, 1995).								
EXAMINER SIGNATURE							DATE CONSIDERED						

Substitute for form 1449/PTO						Application Number 10/782,733				
INFORMATION DISCLOSURE						Filing Date	February 19, 2004			
	_					First Named Inventor	John Fralick			
STATEMENT BY APPLICANT						Art Unit	3737			
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			OTI	HER D	OCUMENTS - NON	-PATENT LITERATUR	E DOCUMENTS			
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Initials	No.			item (I		l, symposium, catalog, etc.), date, pa er, city and/or country where publish		YES	NO	
					et al. "Chromophore," SPIE, 2979, pp. 139	detection by fluorescence	spectroscopy in tissue-			
			DUBOIS	S, D. et	al. "Moldable tissue e	quivalent bolus for high-er				
			electron therapy," Medical Physics, Vol. 23, No. 9: pp. 1547-1549 (1996).  ELSNER, Ann E., et al, "Foveal Cone Photopigment Distribution: Small Alterations Associated with Macular Pigment Distribution," IOVS, Nov. 1998, vol. 39, No. 12, pp. 2394-2404.							
			FIRBANK and D.T. DELPY, M. "A design for a stable and reproducible phantom for use in near infra-red imaging and spectroscopy," Physics in Medicine and Biology, Taylor and Francis Ltd., London, GB, Vol. 38, No. 6, pp. 847-853 (June 1, 1993).							
			FIRBANK, Michael et al. "An improved design for a stable and reproducible phantom material for use in near-infrared spectroscopy and imaging," Physics in Medicine and Biology, Taylor and Francis Ltd., London, GB, Vol. 40, No. 5, pp. 955-96f (Jan. 1, 1995).							
			GELLERMANN, W. et al. "Noninvasive laser Raman detection of carotenoid antioxidants in living human skin," SPIE, Vol. 4244, pp. 36-44 (2001).							
			GNIADECKA, Monika et al. "Distinctive Molecular Abnormalities in Benign and Malignant Skin Lesions: Studies by Raman Spectroscopy," Photochemistry and Photobiology, 1997, 66(4): 418-423.							
			HAMMOND, B.R., Fuld, K., and Curran-Celentano, J., "Macular Pigment Density in Monozygotic Twins," Invest. Ophthalmo. Vis. Sci., vol. 36, No. 12, pp. 2531-2541, Nov., 1995.							
			HANDELMAN, G.J., Snodderly, D.M., Krinsky, N.L., Russett, M.D., and Adler, A.J., "Bilogical Control of Primate Macular Pigment," Inv. Ophthalmol. Vis. Sci., vol. 32, No. 2, pp. 257-267, Feb., 1991.							
			HATA, T. R. et al. "Non-invasive Raman spectroscopic detection of carotenoids in human skin", Journal of Investigative Dermatology, Vol. 115, No. 3, pp. 441-448 (2000).							
			HUNT, S. et al. "Spectroscopic characterization of low molecular weight fluids from silicone elastomers," Journal of Macromolecular Science, Pure and Applied Chemistry, Uol. A39, No. 9, pp. 1007-1024 (2002).							
LAMBERT, J. L. et al. "Measurement of aqueous glucose in a model anterior chamber using Raman spectroscopy", Journal of Raman Spectroscopy, Vol. 33, pp. 524-529 [2002].										
EXAMI	NEF	SI	GNATUR	E		DATE CONSIDERED				
						r not citation is in conformar e copy of this form with next co		line th	rough	

Substitu	ıte fo	r for	m 1449/P	то		Application Number	10/782,733					
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STATEMENT BY APPLICANT (use as many sheets as necessary)						Art Unit	3737					
						Examiner Name	Lamprecht, Joel					
Sheet	heet 6 of 6				6	Attorney Docket Number	186575/US/2					
			ОТН	IER D	OCUMENTS - NON	-PATENT LITERAT	URE DOCUMENTS					
*Examiner	Cite		Ir				(when appropriate), title of the	TRANS	BLATION			
Initials	No.	ı	item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published									
			infrared 243 (200	for us 01).	e in photomedicine", I	asers in Surgery and I	erties in the visible and near Medicine, Vol. 28, pp. 237-					
MAKROPOULOU, M.I. et al. "Quantitative estimation of a tissue simulators based on laser induced spectroscopy a SPIE Vol. 4162, pp. 76-85 (2000).												
			imaging	, dosir		nedical Optics, SPIE, P	s for optical spectroscopy, P.O. Box 10, Belingham, WA,					
			POLYZ	OIS, G.	L. et al. "Physical prop	erties of a silicone pro	sthetic elastomer stored in , Vol. 83, No. 5, pp. 572-577					
			Prevent	ing or	Limiting Damage Caus		v of Their Possible Role in en," Free Radicals and 1992.					
			Microsp	ectros	copy: Comparison of		els Measured by Raman ng Cancer Patients and (1997).					
			M.D., Gr Caroten	ragoud loids, \	las, E.S., Haller, Jr., Mi /itamins A, C and E, a	ller, D.T., Yannuzzi, L.A	N., Burton, T.C., Farber, A., and Willet, W., "Dietary ted Macular DegEneration," 1994.					
			Spectro	scopy	", Applied Spectrosco	otic Probes for in vivo i	19-627 (1999).					
			use in F and Fra	PDT an	d fluorescence spectro td., London, GB, Vol. 4	scopy," Physics in Me 2, No. 7, pp. 1415-1426						
		ĺ					Ided in turbid media with ol. 34, No. 18, pp. 3425-3429					
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